

said write region detection means is responsive to signals, including said transfer command, representing the addresses accessed by the image data writing means for detecting the region including all the addresses.

6. (New) A machine-readable medium having stored thereon a plurality of executable instructions, the plurality of instructions comprising instructions to:

write image data to addresses within a graphics memory using an image data writing means;

read and transfer said image data, using a transfer means and a write region detection means, from the graphics memory to a display means in response to a transfer command issued from the image data writing means;

wherein said write region detection means, responsive to said addresses accessed by the image data writing means, to detect a region including all said addresses;

wherein said transfer means, responsive to said transfer command issued from the image data writing means, to transfer to said display means only such data in the region detected by said write region detection means;

store data, using said graphic memory, from the image data writing means at an address designated by the image data writing means,

write data, using said image data writing means, of only such part that needs to be updated in said graphics memory; and

wherein said write region detection means is responsive to signals, including said transfer command, representing the addresses accessed by the image data writing means for detecting the region including all the addresses.

7. (New) A machine-readable medium having stored thereon a plurality of executable instructions, the plurality of instructions comprising instructions to:

access image data using addresses within a memory for transfer to a display device;

determine an image data region, being less than a full display screen of image data, including said addresses being accessed; and

transfer image data within said image data region to said display device.

8. (New) The medium of claim 7, wherein said image data region includes a region from a minimum vertical direction address to a maximum vertical direction address among said addresses being accessed.

9. (New) The medium of claim 8, wherein said image data

figs 1-2. col. 8) lines 59-66

fig. 7.

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